

## ABSTRACT:

The present invention relates to semi-conductor device comprising:

- a substrate;
- a first semi-conducting region of a first conductive type adjacent to the substrate and provided with a first contact part arranged on the side of the device situated  
5 opposite the substrate;
- a second semi-conducting region of a second, opposite conductive type, the centre line of which extends in the form of a polygon, which region has a first junction to the first semi-conducting region and which is provided with a second contact part arranged on the side of the device situated opposite the substrate;
- 10 - a third semi-conducting region of the same conductive type as the first semi-conducting region, the centre line of which extends in the form of a polygon, which region has a first junction to the second semi-conducting region and which is provided with a third contact part arranged on the side of the device situated opposite the substrate.

15 Fig. 1